NC/QC/W-11/2019-20/BW-C1 Date: 15-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**171 min**	Shall not be less than 30 min
2	Final setting time	**258 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.92 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.87 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-11/2019-20/BW-FA1 **Date: 15-05-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.10**	60-95	75-100	85-100	
01.18	**62.85**	30-70	55-90	75-100	
600. mic	**47.65**	15.34	35-59	60-79	
300.mic	**11.30**	5-20	8-30	12-40	
150.mic	**7.55**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.10 %**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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Page No. 1/1,

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NC/QC/W-11/2019-20/BW-CA1 **Date: 15-05-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**95.70**	85-100	90 - 100
10 mm	**29.45**	0 - 20	25 - 55
4.75 mm	**6.95**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**22.55 %**	Not to exceed 25 %
2.	Crushing value	**28.10 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/W-11/2019-20/BW-CB1 **Date: 29-05-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-05-19	29-05-19	07	22500	300	13.33	**13.63**
	002	‘’	“	‘’	“	315	14.00	
	003	‘’	“	‘’	“	305	13.56	

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NC/QC/W-11/2019-20/BW-CB2 **Date: 05-07-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-06-19	05-07-19	07	22500	305	13.56	13.41
	002	"	"	"	"	290	12.89	
	003	"	"	"	"	310	13.78	

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NC/QC/W-11/2019-20/BW-CB3 **Date: 15-07-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-07-19	15-07-19	07	22500	310	13.78	**13.26**
	002	"	"	"	"	295	13.11	
	003	"	"	"	"	290	12.89	

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NC/QC/W-11/2019-20/BW-CB1a

Date: 19-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-05-19	19-06-19	28	22500	385	17.11	**17.04**
	002	‘’	“	‘’	“	395	17.56	
	003	‘’	“	‘’	“	370	16.44	

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NC/QC/W-11/2019-20/BW-CB2a **Date: 26-07-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}
Ref.: Material testing/W-11/QC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-06-19	26-07-19	28	22500	375	16.67	**17.19**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	395	17.56	

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NC/QC/W-11/2019-20/BW-CB3a

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.}

Ref.: Material testing/W-11/QC/19-20,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. K. Gopireddy, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-07-19	05-08-19	28	22500	380	16.89	**16.96**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	375	16.67	

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